Bently Nevada 1900/65

Installation & Commissioning Guide

Bently Nevada 1900/65 is an eight-input general-purpose machinery monitor with four vibration channels, four temperature channels, configurable alarms, relay outputs and proportional outputs.

PRODUCT ROLE AND VERIFIED FEATURES

Feature 1

Accepts four vibration and four temperature inputs.

Feature 2

Provides configurable Alert and Danger processing.

Feature 3

Includes six relay outputs and four proportional outputs.

Feature 4

Supports optional local or remote indication and software configuration.

VERIFIED DATA SNAPSHOT

Dynamic inputs	Four vibration channels
Temperature inputs	Four channels
Alarm levels	Alert and Danger
Relay outputs	Six configurable relays

SYSTEM RELATIONSHIP

Field device → **Product interface** → **System channel** → **Verified response**

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Pre-installation readiness

READINESS GATE

Identity

Compare the complete marking with the approved work order and installed record.

System match

Confirm the receiving channel, mating components and controlled configuration.

Physical condition

Inspect mounting surfaces, connectors, terminals, cable and support hardware.

Work controls

Apply authorized isolation, bypass, access and restoration procedures.

TECHNICAL PROFILE FOR THE WORK

Dynamic inputs

Four vibration channels

Temperature inputs

Four channels

Alarm levels

Alert and Danger

Relay outputs

Six configurable relays

Proportional outputs

Four 4–20 mA outputs

Configuration

Windows-based configuration software

Display

Optional local or remote display

Buffered outputs

Available for portable diagnostic connection

IMPORTANT NOTICE

Resolve every unmatched interface, configuration or receiving-system condition before removal or installation.

CONFIGURATION AND WORK CONTROLS

Configuration identity	Bently Nevada 1900/65
Technical boundary	Apply only the functions and interfaces shown for this product or its identified system family.
Selection control	Match the complete ordering string and installed interfaces before purchase or installation.

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Installation sequence

CONTROLLED WORK STEPS

01	Confirm the complete 1900/65 hardware, channel map and firmware before replacement.
02	Identify every vibration and temperature input before disconnecting wiring.
03	Match sensor type, sensitivity and power requirements to each dynamic channel.
04	Verify thermocouple or RTD type and polarity on every temperature input.
05	Restore Alert, Danger, relay voting and recorder-output scaling from the approved configuration.
06	Check optional display and communication connections before energizing.
07	Function-test alarms, relays, buffered outputs and 4–20 mA channels with controlled inputs.
08	Record the final configuration file and complete cause-and-effect acceptance results.

CONNECTION RECORD

As found	Photograph and label every connection and installed orientation before removal.
Mechanical	Record mounting position, support, clearance and connector engagement.
Electrical	Record polarity, common, shield, channel assignment and cable route.
Configuration	Preserve approved settings, scaling, alarm logic and acceptance limits.
As left	Record the final physical condition and any controlled deviation.

Field device → **Product interface** → **System channel** → **Verified response**

WORK HOLD POINTS

Before removal	Identity, position, wiring, orientation and controlled settings recorded.
Before connection	Mating interfaces, condition and routing reviewed.
Before power-up	Mechanical work, wiring, shielding and configuration independently checked.
Before release	Static value, dynamic response and protection behavior accepted.

Commissioning and functional proof

COMMISSIONING SEQUENCE

Initial state

Observe status at power-up and check for unexpected fault or alarm indication.

Static value

Verify the expected bias, gap, loop, contact or channel value for the application.

Dynamic response

Apply the approved machine or test stimulus and confirm response and scaling.

Protection path

Verify the configured alarm, relay, data or receiving-system behavior.

APPLICATION-SPECIFIC EVIDENCE

Cooling-tower fan protection

Combines casing vibration and temperature inputs for continuous supervision.

Pump and blower monitoring

Provides local protection for essential balance-of-plant machines.

Small compressor packages

Adds configurable alarms and relays to skid-mounted equipment.

Motor and centrifuge protection

Uses vibration, temperature and proportional outputs for continuous monitoring.

ACCEPTANCE RECORD

Identity	Complete marking and final installed position recorded.
Physical inspection	Mounting, connectors, terminals and routing checked.
Channel status	Expected status and configured measurement confirmed.
Functional test	Required output or protection response demonstrated.
Restoration	Bypasses removed and operating state approved.

COMMISSIONING QUESTIONS

How many vibration inputs are available on 1900/65?	It provides four dynamic vibration channels.
Which temperature sensor groups can be assigned to 1900/65?	The monitor supports four temperature inputs for the documented thermocouple or RTD types.
How many independent relay outputs can protection logic use on 1900/65?	Six configurable relays are available.
Which analog interface sends measured values from to another system 1900/65?	Four configurable 4–20 mA recorder outputs are provided.

Release record and technical references

CLOSEOUT QUESTIONS

Can operate without the optional display 1900/65?	Yes. The monitor functions independently, while the display adds local or remote indication.
Why must the channel configuration file be preserved for 1900/65?	Sensor type, filters, scales, alarms, relay voting and outputs are software-configured.
Which checks distinguish input commissioning from relay proof testing on 1900/65?	First verify each measured signal and scale, then drive the configured alarm logic and observe every assigned relay.
What acceptance record should close work on 1900/65?	Record input response, Alert/Danger thresholds, relay voting, recorder outputs and any display or communication checks.

RELATED MODELS FOR INSTALLATION PLANNING

Bently Nevada 102045-040-00	Installation-planning reference. Review the complete ordering string before selection.
Bently Nevada 9200-06-02-10-00	Installation-planning reference. Compare the required interface and system position.
Bently Nevada 9200-06-05-10-00	Installation-planning reference. Confirm the execution independently for the intended task.

CONFIGURATION AND FINAL CONTROL

Configuration identity	Bently Nevada 1900/65
Technical boundary	Apply only the functions and interfaces shown for this product or its identified system family.
Selection control	Match the complete ordering string and installed interfaces before purchase or installation.

IMPORTANT NOTICE	Release the equipment only after the responsible site authority accepts the recorded result.

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